

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/001996

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02M3/156 H02M1/00 H03K17/28		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H02M H03K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 680 056 A (CENTRE NAT RECH SCIENT) 5 February 1993 (1993-02-05) abstract page 9, line 8 - line 13 figures 1,5	1-8, 10-16,18
A	US 5 930 132 A (SATO ATSUSHI ET AL) 27 July 1999 (1999-07-27) abstract from column 1, line 65 up to column 2, line 14 figure 1	1-18
X,P	US 2003/231011 A1 (TAKEMURA KO ET AL) 18 December 2003 (2003-12-18) abstract paragraph '0032! figures 1,2A,2B	1,6-8, 11-14
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filing date but later than the priority date claimed *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the International search 12 October 2004		Date of mailing of the International search report 19/10/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Marannino, E.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	<p>US 6 381 160 B1 (DUERBAUM THOMAS ET AL) 30 April 2002 (2002-04-30) abstract column 3, line 37 - line 51 column 6, line 31 - line 60 figure 2</p> <p style="text-align: center;">-----</p>	1, 14

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Information on patent family members

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